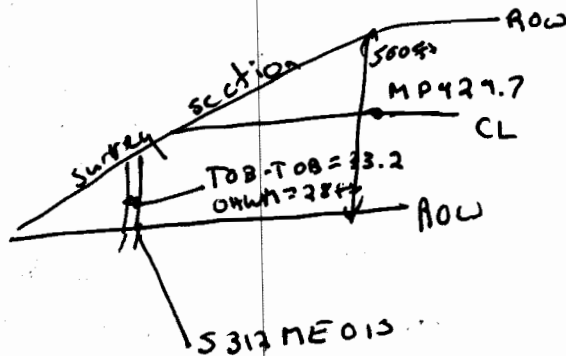


### Waterbody Data Form

Centerline
  Re-Route
  Access Road
  Ancillary Facility
  Transmission Line
  Other

Centerline ID: <b>S312ME013</b>		Project Designated Name: <b>tributary</b>	
Date: <b>10-6-12</b>	Client/Project Name: <b>Keystone XL</b>		Milepost Enter/Exit: <b>429.7</b>
Team: <b>312</b>	State/County: <b>SD/ME</b>		Quad Name:
Logbook No.: <b>1</b>	Logbook Page No.:	Tract No.: <b>ML-SD-ME-01250.000</b>	

Drawing (Please provide orientation arrow, all features identified, location to centerline, etc.)



Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other	
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input checked="" type="checkbox"/> None	
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 month) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input checked="" type="checkbox"/> No Flow	
OHWM Width (ft.):	<b>28 ft</b>	
Sinuosity:	<input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.):	<b>33.2 ft</b>	Water Surface (At Crossing Location) <b>0</b>
Stream Depth (ft.):	<input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators:	<b>bare banks</b>	
Bank Height (ft.): (Looking Downstream)	Left:	<input type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input checked="" type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
	Right:	<input type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input checked="" type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope: (Looking Downstream)	Left:	<input type="checkbox"/> 4:1 <input type="checkbox"/> 3:1 <input type="checkbox"/> 2:1 <input type="checkbox"/> 1:1 <input checked="" type="checkbox"/> Vertical
	Right:	<input type="checkbox"/> 4:1 <input type="checkbox"/> 3:1 <input type="checkbox"/> 2:1 <input type="checkbox"/> 1:1 <input checked="" type="checkbox"/> Vertical

**Qualitative Attributes**

<b>Water Appearance:</b> <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal Mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:			
<b>Stream Substrate %:</b>			
<b>Aquatic Habitats:</b> <input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffle <input type="checkbox"/> In-stream Emergent Plant      % Cover: <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plant      % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input type="checkbox"/> Fringing Wetlands      Characteristics: <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None			
<b>Aquatic Organisms Observed:</b>			
<b>Riparian Zone:</b> Width of Natural Vegetation Zone from Edge of Active Channel out to Flood Plain (ft): Left - 50+      Right - 50+ Vegetative Layers: <input type="checkbox"/> Herbs <input type="checkbox"/> Shrubs <input type="checkbox"/> Trees <input checked="" type="checkbox"/> Multiple Significant Bare Areas Within Riparian Zone <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Evidence Of Non-Buffered Concentrated Flows: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
<b>Tributary Condition:</b> <input type="checkbox"/> Natural <input type="checkbox"/> Artificial (Man-Made) <input checked="" type="checkbox"/> Manipulated			
<b>Channel Condition:</b> <input checked="" type="checkbox"/> Channelization/Braiding <input type="checkbox"/> Unnatural Straightening <input checked="" type="checkbox"/> Downcutting <input checked="" type="checkbox"/> Dikes/Berms <input type="checkbox"/> Excessive Bank Erosion <input type="checkbox"/> N/A			
<b>Disturbances:</b> <input checked="" type="checkbox"/> Livestock Access to Riparian Zone <input checked="" type="checkbox"/> Manure In Stream or On Banks <input type="checkbox"/> Waste Discharge Pipes Present <input type="checkbox"/> Other:			

**Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:**  
 Habitat ID Number:  
 -rangeland

**Comments:**  
 - stream dry at time of survey likely due to drought  
 - may have been modified by landowner (straightened)

**Stream Quality:**     High     Moderate     Low  
 -cattle access